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CENTRAL INTELLIGENCE AGENCY

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1. After conferences with leading men of industry, economics, and universities, ZAFT (Zentralamt fuer Forschung und Technik) outlined a general research program within the framework of the 1950-55 Five-Year-Plan: natural sciences will have first priority, but, in particular, the natural science research programs in chemistry, physics, electrical engineering, machine construction, and metallurgy. While the research programs for industry are to be distributed directly by ZAFT, the State Secretariat for University Affairs (Staatssekretariat fuer Hochschulwesen) is to be used as an intermediary office for the distribution of the research commissions to universities. Annually, in the fall, each university will be compelled either to request approval for continuation of current research problems or approval to start new research work. For the latter purpose the topic of the research project and the objectives must be explained briefly on printed forms. Furthermore, the expected deadline of the research project must be stated in the report and the total expenditures broken down into three groups:

   A. Personnel expenditures (number of scientists and assistants);

   B. Expenditures for equipment (listing of all necessary apparatus costing more than DM 1000;

   C. Expenditures for repairs and construction (in case of structural changes in buildings and rebuilding of essential apparatus).

2. After preliminary examination of the requests (including the financial plans) by the State Secretariat, the requests are to be passed on to ZAFT. It is to be the task of Dr. Freytag (of the State Secretariat) to reduce the requested research funds to the minimum amount possible before the State Secretariat and ZAFT finally determine its size. For test purposes, a representative of Dr. Freytag, business advisor Schoerf (fnu), who is a former Greifswald philosophy student who passed the state examination, will visit the individual university institutes and examine in detail the size of research funds requested for the above groups after a discussion withthe institute directors and other individuals charged with research in certain fields.

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3. Some research fields were cut "on the spot" as much as 50% after such first examinations, while some research institutes were excepted from these cuts. Excepted institutes were either those whose directors (i.e. Franck, Bonpe, Woeglich) were in closest contact with ZAFT, or those whose research work was of immediate consequence to industrial development.

4. The research laboratories of industry worked on immediate problems of production improvement and the introduction of new plant production processes which were suggested principally by the plant management and therefore were necessarily limited in scope, while the research program of the university institutes could remain relatively heterogeneous; that is, the university institutes could work in many fields which did not have to be related. This situation would explain why research work suggested by individual professors had, in general, always been approved. At least up to the middle of 1952, ZAFT was glad when professors would submit suitable research proposals.

5. However, in the course of the last year research suggestions made by ZAFT in some areas, began to increase. Examples of these proposals are:

   1. Special heat resistant steels--Dr. Meisl of ZAFT.

   2. Production of titanium--Dr. Meisl.

   3. Physical and chemical properties of titanium and its alloys--Dr. Meisl.

   4. Production of chenium and its applications--Lichtenstein, ZAFT.

   5. Extraction of rare earths from Kola-phosphates from the USSR--Lichtenstein, ZAFT.

   6. Vortex-Roasting (Wirbel-roestung) of sulphides and sphalerites--ministry of heavy industry.

   7. Thermodynamic problems.

6. In the beginning these proposals were undertaken solely by industrial laboratories while lately attempts have been made to charge university institutes with the complete solution. Every university institute and research laboratory is required to submit each month a current, short report concerning the progress of each individual research project. The printed, short report forms contain the following questions, which only have to be checked off in sequence.

   1. Has the project been concluded and, if so, what are the results? (In this latter case a very short report containing the most important results and suggestions for possible technical applications have to be submitted.)

   2. Have any important partial results been obtained?

   3. Have any difficulties in the conduct of the project been encountered?

      a. Of a financial nature?
      b. As far as equipment is concerned?
      c. As far as personnel is concerned?

   4. Why has work been interrupted?

   5. When was work resumed?

7. A detailed justification of the delay is required if a deadline is not met on time, even if only a rough estimate of the time element involved had been given in advance. To effect extension of a research deadline created great difficulties and generally could be obtained only after a personal account

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had been given in Berlin. That approach was based upon persons [illegible] and with plan fulfillment and not upon financial-technical [illegible].

5. Patents on industrially profitable research results could be applied for only as economic patents, and not as exclusive patents, by the research director in agreement with the State Secretariat or ZAW. The exclusive patent could only be exploited by the industry with the consent of the inventor, while the economic patent could be exploited by any industry according to its decision. While ZAW acts as arbitrator, the inventor could only receive compensation for the economic patent, the amount of which was to be determined by [illegible]

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